ITEM: 22

SUBJECT: Uncontested Waste Discharge Requirements

REPORT: Following are the proposed waste discharge requirements that prohibit discharge to surface waters. All agencies and the dischargers concur or have offered no comments. Items indicated as updates on the summary agenda make the requirements consistent with current plans and policies of the Board.

a. **CHEVRON CORPORATION AND CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY, CHEVRON FORMER BAKERSFIELD REFINERY AND WAIT TANK YARD GROUNDWATER CLEANUP, Kern County**

Chevron Corporation (Discharger) owns the former Chevron Bakersfield Refinery and adjacent Wait Tank Yard in Oildale, the site of a large petroleum hydrocarbon groundwater plume that has migrated off-site. Site remediation using soil vapor extraction (SVE) began in 1996. To date, over eight million pounds of hydrocarbons have been removed from the subsurface. Air sparge wells were installed within the plume at the downgradient site boundary during 2001 to 2004 to treat the saturated zone. Currently, 21 SVE system extraction wells and 19 air sparge wells are part of the remediation system.

The Discharger proposes to inject nitrogen and phosphorus to enhance biological degradation of petroleum hydrocarbons. Nitrogen will be injected with sparge air in the form of ammonia, and phosphorus will be injected with sparge air in the form of triethyl phosphate (TEP). The estimated cleanup time using biosparging for the off-site groundwater plume is seven years. The requirement would allow the Discharger to effect injection of the nutrients, limit the nutrients injected to the treatment zone, and require monitoring to show that the nutrients are limited to the treatment zone. (BEM)

b. **LANGE TWINS FAMILY LIMITED dba, JAHANT WOODS CELLARS, San Joaquin County**

Lange Twins Family Limited doing business as Jahant Woods Cellars is constructing a new winery in Acampo that will crush grapes and process juice into finished wines, bottle wine, and distribute the wine. The winery is being constructed in phases. The first phase is being constructed to crush 11,000 tons of grapes but crush amounts will be lower in the initial years. At a crush rate of 11,000 tons per year, approximately 12,500,000 gallons of wastewater will be generated on an annual basis. Wastewater will be generated in cleaning and rinsing activities. Wastewater will be collected, biologically treated in ponds, and land applied. Ponds will be double-lined with synthetic liners

equipped with a leak detection system; treatment ponds will be equipped with up to 40-horsepower of floating mechanical aerators. Land application areas consist of 28-acres planted in pasture, 40-acres planted in vineyard, and 64?acres planted in vineyard. The 28-acre land application area will be the primary land application area used during the winter months. Wastewater will be applied to the 40 and 64-acre land application areas during the remainder of the year. Solids will be applied to the land application areas as fertilizer/soil amendment. Process water at the facility is provided by a domestic supply well. Supply water quality is generally good, with a total dissolved solids concentration of 147 mg/L. Groundwater exists at a depth of approximately 50 feet below the ground surface. Domestic wastewater is discharged to an on-site system regulated by the San Joaquin County Environmental Health Department. Surface water drainage in the area is to the Mokelumne River. (TRO)

c. **CALIFORNIA DEPARTMENT OF TRANSPORATION, REGION X, HIGHWAY 99 MEDIAN IMPROVEMENT PROJECT, PM 18.5 TO PM 29.0, San Joaquin County (waiver)**

The Department of Transportation plans to improve the Highway 99 medians between road markers PM 18.5 and PM 29.0. The project will involve the removal and disposal of approximately 58,070 tons of soil. Approximately 6,000 tons of the soil contains hazardous lead concentrations and the remaining soil contains sufficient soluble lead to be classified as designated waste. The Discharger proposes to remove hazardous soil for discharge to an appropriate landfill, and to amend with 10% Portland cement and reuse the designated soil as compacted engineered fill beneath pavement or in vegetated road embankments. Under the conditions of disposal required by this waiver, the treated soil will pose little or no threat to water quality and a conditional waiver of Waste Discharge Requirements is appropriate. (RDA)

RECOMMENDATION: Adopt the proposed waste discharge requirements.

Mgmt. Review_____
Legal Review _____

Regular Board Meeting
Central Valley Regional Water Quality Control Board
11020 Sun Center Drive, #200
Rancho Cordova, CA 95670

4 August 2006